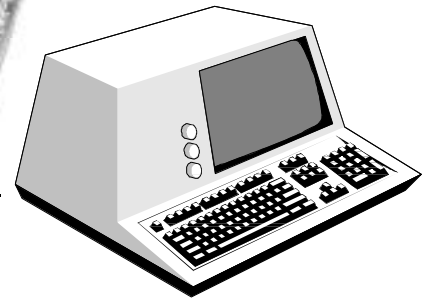
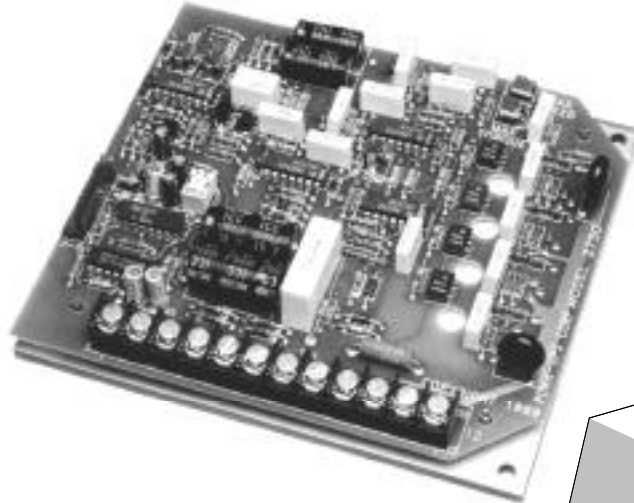




DC MOTOR



INPUT SOURCE

Model 2750 Analog Input

- **Ideal for run/stop/jog and reversing applications**
 - **Extremely rugged and economical**
 - **Full-wave four-quadrant regenerative DC output**
 - **Motor inhibit input**
 - **Maximum/jog speed, torque and regulation controls**

POWR UPS MODEL 2750 full wave regenerative motor controls are designed to replace full wave dynamically braked units made by other manufacturers. With its regenerative action, the 2750 offers superior performance in Run/Stop, Run/Stop/Jog and reversing applications.

Dynamically braked motor controls with braking resistors, relays and reversing relays often rely on complicated schemes to prevent relay switching at high voltages or currents. When these complicated circuits malfunction, relay life can be greatly reduced. The 2750 offers static motor direction reversing and breaking that is simple and reliable. The rate of braking and reversing can be user selectable by an easily accessed dip switch. If the user needs an extended time for braking, this can be accomplished by adjusting the decel pot (R4).

The Model 2750 uses an external 5000 speed potentiometer for both forward or reverse directions. An external SPDT switch with switch function (on-off-momentary) should be used for Run/Brake/Jog. An external SPDT switch with switch function (on-none-on) for Forward/Reverse should be used.

User settable adjustment controls include Maximum

Speed, Jog Speed, Current/Torque Limit, IR Compensation (for adjustment of speed regulation), Acceleration and Deceleration Rates. Rate of Braking or Reversing from 2.0 mS – 47 mS is user selectable by easily accessed dip switches.

An inhibit signal line is provided on 2750 motor controls. When the inhibit line is removed from ground or just left open the motor output is inhibited. The motor control operates normally when the inhibit line is directly connected to the ground pin of the motor control.

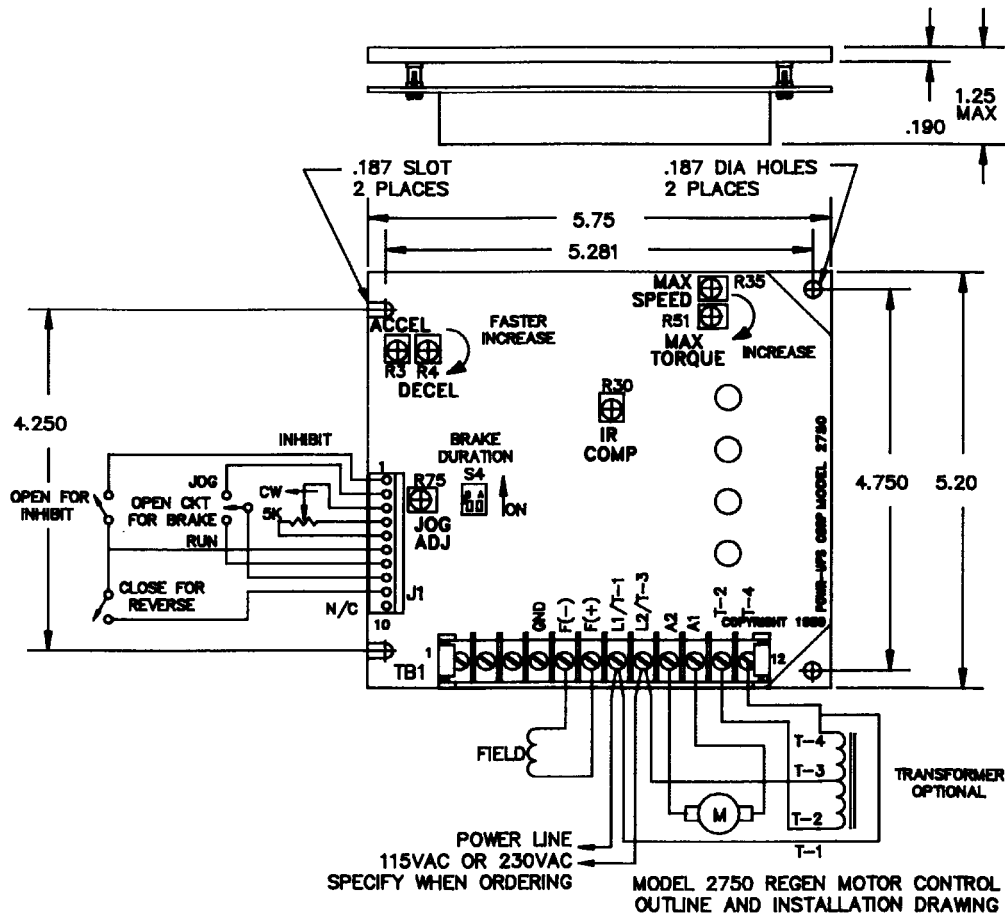
Model 2750 motor controls are rugged units that incorporate thyristor phase angle control and operate from a nominal 115 VAC line, driving 90 VDC rated motors. 180 VDC rated motors are driven when a 230 VAC line is used. A field voltage supply producing either 50 or 100 VDC is incorporated for shunt field motors (100 and 200 VDC for 230 VAC inputs).

Other motor voltages can be accommodated on special order. Most applications require the use of a 1:1 auto-transformer or split phase AC line to produce the full wave characteristic.

Please specify operating voltage and line frequency when ordering.

2750

Four quadrant control of DC Motors



BASIC SPECIFICATIONS:

LINE VOLTAGE: 115 VAC or 230 VAC $\pm 15\%$

LINE FREQUENCY: 57 to 63 Hz (standard)
47 to 53 Hz (optional)

OPERATING TEMP. 0°C to 50°C

SPEED RANGE: 50 to 1, minimum

REGULATION: 0-full load, adjustable to 1%
INTERNAL

ADJUSTMENTS: Maximum speed CW, CCW
Maximum torque CW, CCW
IR compensation CW, CCW
Acceleration rate CW, CCW
Deceleration rate CW, CCW
Jog speed CW, CCW
Rate of Braking/Reversing CW, CCW